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FILE 'REGISTRY' ENTERED AT 07:38:24 ON 08 FEB 2002

FILE 'CAPLUS' ENTERED AT 07:43:20 ON 08 FEB 2002
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L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 1992:426035 CAPLUS
DN 117:26035
TI Synthesis of amines and amino alcohols by electrophilic amination and
highly stereoselective reduction
AU Gmeiner, Peter; Bollinger, Bernd
CS Inst. Pharm. Lebensmittelchem., Univ. Muenchen, Munich, 8000/2, Germany
SO Liebigs Ann. Chem. (1992), (3), 273-8
CODEN: LACHDL; ISSN: 0170-2041
DT Journal
LA English
OS CASREACT 117:26035
GI



I

II

AB A practical and selective method for the synthesis of the .beta.-arylamines I [R = H, OH (cis and trans); R1 = H, MeO] is reported. The reaction sequence starts from .alpha.-tetralones which readily react with dibenzyl azodicarboxylate to afford the protected .alpha.-hydrazino ketones. Then, depending on the redn. conditions, the trans- or cis-hydrazino alcs. are formed predominantly. The stereoselectivities which range between 18:1 and 1:67 (trans/cis) are explained by stereoelectronic effects and steric hindrance. Depending on the workup procedure, the cis-hydrazino alcs. or the oxazolidinone derivs. II are isolated. Subsequent hydrogenolyses of the hydrazino alcs. lead to the target mols. I.

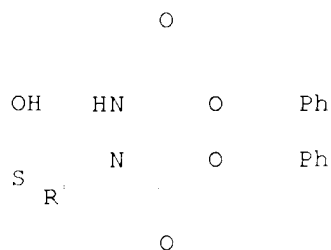
IT 138206-94-7P 138206-95-8P 138408-15-8P
138408-16-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrogenolysis of)

RN 138206-94-7 CAPLUS

CN 1,2-Hydrazinedicarboxylic acid, 1-(1,2,3,4-tetrahydro-1-hydroxy-2-naphthalenyl)-, bis(phenylmethyl) ester, cis- (9CI) (CA INDEX NAME)

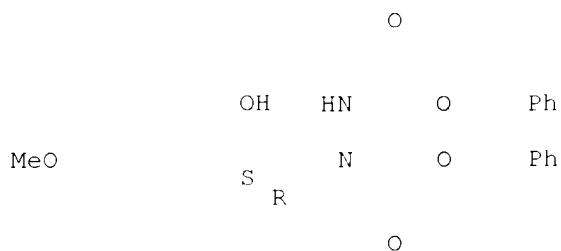
Relative stereochemistry.



RN 138206-95-8 CAPLUS

CN 1,2-Hydrazinedicarboxylic acid, 1-(1,2,3,4-tetrahydro-1-hydroxy-7-methoxy-2-naphthalenyl)-, bis(phenylmethyl) ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

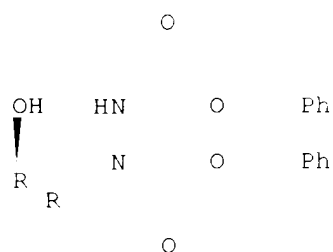


RN 138408-15-8 CAPLUS

CN 1,2-Hydrazinedicarboxylic acid, 1-(1,2,3,4-tetrahydro-1-hydroxy-2-naphthalenyl)-, bis(phenylmethyl) ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

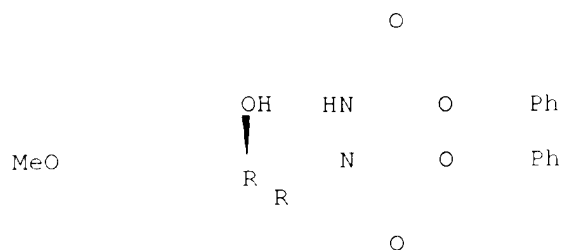
09/902,789



RN 138408-16-9 CAPLUS

CN 1,2-Hydrazinedicarboxylic acid, 1-(1,2,3,4-tetrahydro-1-hydroxy-7-methoxy-2-naphthalenyl)-, bis(phenylmethyl) ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 138408-13-6P 138408-14-7P 138408-17-0P

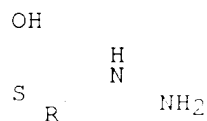
138408-18-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and nitrogen-nitrogen bond cleavage of)

RN 138408-13-6 CAPLUS

CN 1-Naphthalenol, 2-hydrazino-1,2,3,4-tetrahydro-, monohydrochloride, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



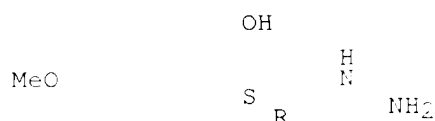
● HCl

RN 138408-14-7 CAPLUS

CN 1-Naphthalenol, 2-hydrazino-1,2,3,4-tetrahydro-7-methoxy-, monohydrochloride, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

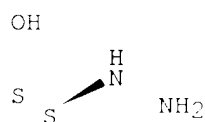
09/902,789



● HCl

RN 138408-17-0 CAPLUS
CN 1-Naphthalenol, 2-hydrazino-1,2,3,4-tetrahydro-, monohydrochloride, trans-
(9CI) (CA INDEX NAME)

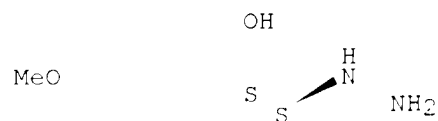
Relative stereochemistry.



● HCl

RN 138408-18-1 CAPLUS
CN 1-Naphthalenol, 2-hydrazino-1,2,3,4-tetrahydro-7-methoxy-,
monohydrochloride, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

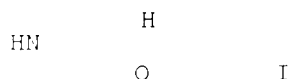


● HCl

LG ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 1992:41818 CAPLUS
IN 116:41818
TI Efficient methodology for the preparation of .beta.-aminotetralin
derivatives via electrophilic amination
AU Gmeiner, Peter; Bollinger, Bernd
CS Inst. Pharm. Lebensmittelchem., Ludwig-Maximilians-Univ., Munich, 80000/2,
Germany

09/902,789

SO Tetrahedron Lett. (1991), 32(42), 5927-30
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English
OS CASREACT 116:41818
GI



AB A mild and efficient method for the construction of .beta.-aryl amines from the corresponding .alpha.-aryl ketones is presented. The key steps of the synthesis involve an electrophilic amination by dibenzyl azodicarboxylate followed by a stereoselective LiHBet₃ redn. The reaction sequence is applied to the synthesis of the tricyclic ergoline analog I.

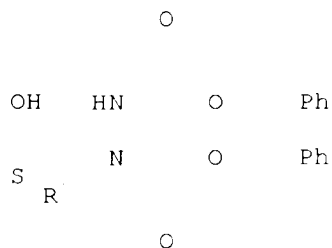
IT **138206-94-7P 138206-95-8P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and transesterification-cyclization of)

RN 138206-94-7 CAPLUS

CN 1,2-Hydrazinedicarboxylic acid, 1-(1,2,3,4-tetrahydro-1-hydroxy-2-naphthalenyl)-, bis(phenylmethyl) ester, cis- (9CI) (CA INDEX NAME)

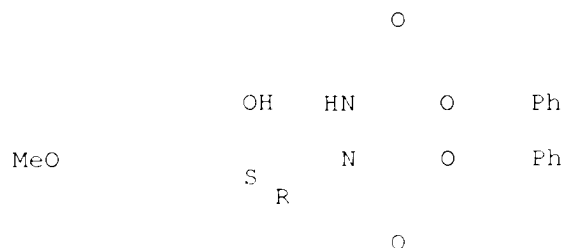
Relative stereochemistry.

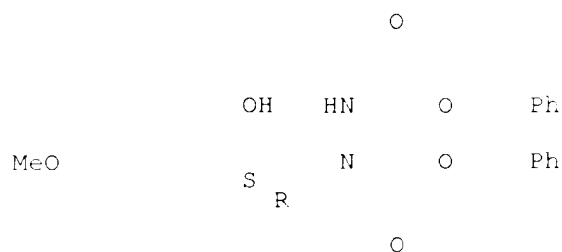


RN 138206-95-8 CAPLUS

CN 1,2-Hydrazinedicarboxylic acid, 1-(1,2,3,4-tetrahydro-1-hydroxy-7-methoxy-2-naphthalenyl)-, bis(phenylmethyl) ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.





L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS

AN 1970:121454 CAPLUS

DN 72:121454

TI Photochemical and thermal 1,2- and 1,4-cycloaddition reactions of azodicarbonyl compounds with monoolefins

AU Koerner von Gustorf, Ernst; White, Danny V.; Kim, Bongsub; Hess, Dieter; Leitich, Johannes

CS Abt. Strahlenchem., Max Planck Inst. Kohlenforsch., Muelheim, Ger.

SO J. Org. Chem. (1970), 35(4), 1155-65

CODEN: JOCEAH

DT Journal

LA English

AB Dialkyl azodiformates form dihydrooxadiazines with indene, dihydro-1,4-dioxine, vinylene carbonate, cis- and trans-1,2-dimethoxyethylene, and vinyl acetate by 1,4 addn.; 1,2 addn. yielding diazetidines is observed with vinyl ethers. Diazetidines also result from the addn. of 4-phenyl-.DELTA.1-1,2,4-triazoline-3,5-dione to indene and dihydro-1,4-dioxine. Dihydrooxadiazines are formed in a concerted Diels-Alder reaction with inverse electron demand, the diazetidines via dipolar intermediates. The acceleration of azodiformate addn. by illumination is due to the photo chem. production of cis azodiformates, which show increased thermal reaction rates as compared with the trans isomers.

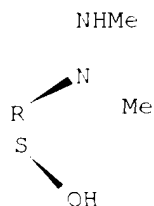
IT **23358-19-2P 23358-23-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 23358-19-2 CAPLUS

CN 1-Indanol, 2-(1,2-dimethylhydrazino)-, cis- (8CI) (CA INDEX NAME)

Relative stereochemistry.



RN 23358-23-8 CAPLUS

CN Bicarbamate acid, (1-hydroxy-2-indanyl)-, diethyl ester (8CI) (CA INDEX NAME)

09/902,789

O
NH C OEt
N C OEt
O
OH

L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS
AN 1970:121451 CAPLUS
DN 72:121451
TI Azodiformate adduct of indene and the stereochemistry of some
1,2-disubstituted indans
AU Huebner, Charles F.; Donoghue, Ellen M.; Novak, Carol J.; Dorfman, Louis;
Wenkert, Ernest
CS Chem. Res. Div., CIBA Pharm. Co., Summit, N. J., USA
SO J. Org. Chem. (1970), 35(4), 1149-54
CODEN: JOCEAH
DT Journal
LA English
AB It was shown by chem. degradations that the structure of the adduct of
indene and diethyl azodiformate is correctly formulated as an oxadiazine.
The stereochem. structure assigned to a 2-amino-1-indanol by
interpretation of NMR data (W. E. Rosen, L. Dorfman, and M. P. Linfield,
1964) was erroneous. The generalizations proposed to deduce the
stereochemistry of 1,2-disubstituted indan on the basis of NMR spectra
were an oversimplification.
IT **23337-76-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 23337-76-0 CAPLUS

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